Bangalore Development Authority

T.Chowdaiah Road, Kumara Park West, Bangalore-560 020

Name of the Work: Tender for the work of Establishing of 2 Nos 2 x 31.5 MVA, 66/11 KV Substation at Byalakere & Somasettihalli Village and 1 Nos. 3 x 31.5 MVA, 66/11KV sub-station at Doddabettahalli along with supply & laying of single Core, 1000 sq. mm EHV UG cable on total turnkey basis including Design, Supply, Erection (including civil works), Testing and commissioning of all materials/ equipment in Dr. K Shivarama Karantha Layout, Bengaluru, under Two Cover System

Ref: Tender No: BDA/2023-24/SS/WORK_INDENT11 dated: 20.01.2024

Response to Pre Bid Queries dated 02 Feb 2024

Sl. No.	Relevant Clause of Tender Document	Clarification Sought by Bidder	Clarification by BDA

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1.	Section 2 ITT, 2.2 Tenders from Consortium / Joint ventures are not acceptable.	Requested to allow consortium/Joint Ventures of at least 2 members. The Tenderer/Bidder/Any one party in JV shall possess valid Super Grade Electrical Contractors License issued by the Government of Karnataka/CPWD as on the date of Bid Notification and shall upload the same along with other Bidding documents failing which the offer will be rejected. * (i) BDA past tenders allowed JV / Consortium & such projects have been successfully commissioned and has been in operation for several years. (ii) JV / Consortium is essential / mandatory in UG transmission systems for the following reasons: - EHV cable manufacturers have the expertise & experience not only in manufacturing of the EHV cables but also in the installation practices covering Cable laying, jointing, termination and commissioning of the EHV cables. This is the most critical portion in an EHV UG Transmission system. - Electrical contractors who have the expertise and experience in construction of stations, terminal bays and in the overhead transmission lines, have successfully executed contracts in India. - A JV / Consortium between a Electrical Contractor & an EHV cable manufacturer would be the best / excellent combination in executing EHV transmission projects covering both the EHV cables & the associated terminal bays, stations, transmission lines etc. This is practiced by all the utilities in India and is proven in successful commissioning for such turnkey contracts. - Moreover, JV / Consortium would also encourage upcoming quality EHV cable manufacturers & reputed Electrical contractors to grow with their established track record with other utilities in the country. - This would lead to a healthy competition & the board would be benefitted in getting competitive rates. -	Consortium / Joint ventures are not acceptable. Tender Condition Prevails

Sl. No.	Relevant Clause of Tender Document	Clarification Sought by Bidder	Clarification by BDA
2	Section 2 ITT, 2.30 The Tenderer/Bidder shall possess valid Super Grade Electrical Contractors License issued by the Government of Karnataka/CPWD as on the date of Bid Notification and shall upload the same along with other Bidding documents failing which the offer will be rejected.*	Requested to allow consortium/Joint Ventures of at least 2 members. The Tenderer / Bidder / Any one party in JV shall possess valid Super Grade Electrical Contractors License issued by the Government of Karnataka / CPWD as on the date of Bid Notification and shall upload the same along with other Bidding documents failing which the offer will be rejected. *	Consortium / Joint ventures are not acceptable. Tender Condition Prevails
3.	**Section 2 ITT, 3.2 (b) i** For 66kV Sub Station: Usually not less than Three (3) No. of 66 OR 110kV or above voltage class Substation OR not less than Fifteen (15) Nos. of 33kV voltage class substations in the last ten(10) years and shall be in satisfactory for a period of One (1) year prior to the date of submission of bid. *	The tender Called for establishing 3 Nos. of SS. Normal practice for the qualifying requirements in the industry is 25% of the required Sub Station quantity. In this case the qualifying requirements would be 1 station experience only. Hence request you to amend the QR requirement of SS to One(1) number instead of three(3) numbers.	Tender Condition Prevails
4.	**Section 2 ITT, 3.2 (b)ii** 66kV EHV UG Cable: Usually not less than Twenty Five (25) percent of length i.e. 3.95 CKM (Circuit consists of 3 Nos of single core 1000Sq. mm) of EHV UG cable in the tendered voltage class OR above Voltage Class cumulatively in the last ten (10) years and shall be in satisfactory for a period of One (1) year prior to the date of submission of bid. *	66kV EHV UG Cable: Usually not less than Twenty Five (25) percent of length i.e. 3.95 CKM (Circuit consists of 3 Nos of single core 1000SQmm 66kV or above voltage UG Cable) of EHV UG cable in the tendered voltage class OR above Voltage Class cumulatively in the last ten (10) years and shall be in satisfactory for a period of One (1) year prior to the date of submission of bid. * (A) Technical representation on the Qualifying requirements needs to be amended as per IEC standards, which is highlighted below: - The conductor size should not be mentioned in the QR. Technically proved vide IEC 60840 clause no. 13 which mentions the Dielectric stress is the criteria for qualification of the manufacturer in that voltage category and not the conductor cross section. - Highlighting IEC standards Clause no. 13 as under :- The dielectric stress levels at the Insulation screen is higher in the lower cross sectional area when compared to the higher cross sectional area with different Insulation thickness of that voltage category. This has been proved in Transmission utilities using 11 mm Insulation thickness (GETCO) as	Refer Corrigendum

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		against 12 mm insulation thickness stipulated in KPTCL tender (This is proved for sizes 630 sq. mm & 1000 sq. mm with the above insulation thickness in 66 KV voltage category).- The Dielectric stress calculation chart with calculation is enclosed to support the above statement in line with the IEC standard.The IEC 60840 clearly mentions that the driving factor for qualification is the dielectric stresses and not the conductor cross section. Reproducing the IEC clause below :"As per IEC 60840, Clause no. 13.1, it is clearly evident with the international guidelines that if the supplied cables demonstrating satisfactory service life with more severe environment i.e. Electrical stress on the insulation screen, the supplies deemed to be applicable for less severe product groups" When a prequalification test has been successfully performed on a cable system, it qualifies the manufacturer as a supplier of cable systems of the same family with the same or lower voltage ratings, as long as the calculated nominal electrical stresses at the cable insulation screen are equal to or lower than for the tested cable system- Conclusion : The conductor cross section should not be mentioned in the Qualifying requirements.Note: M/s. Power Grid Corporation of India Ltd strictly follows the IEC standards wherein the conductor size is not mentioned in their Qualifying requirements. We are enclosing the following documents of M/s PGCIL.M/s. PGCIL - General Technical Requirements (GTR Rev.15): Page Nos. 35 to 37 - Clause nos. 24.6 to 24.8 - Giving details of 400 KV, 220 KV, 132 KV, 110 KV & 66 KV Cables.Request the conductor size is deleted in the qualifying requirements.	
5.	**Section 2 ITT**, 3.6 Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under:Assessed available tender capacity = (A*N*1.5 - B)Where,A = Maximum value of electrical works executed in any one year during the last five years (updated to FY 2023-2024) taking into account the completed as well	Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under:Assessed available tender capacity = (A*N*1.5 - B)Where,A = Maximum value of electrical works executed Annual Turnover in any one year during the last five years (updated to FY 2023-2024) taking into account the completed as well as works in progress.N = Number of years prescribed for completion of the works for which tenders are invited.B = Value, at FY 2023-2024 price level, of existing commitments and on-going electrical works to be completed during the next 1.5 Years (18 months) (Period of Completion in Years to be stipulated). The criteria for evaluating the Assessed available capacity in performing/ executing the contract, should be the Turnover & the financials (Balance sheets) of the Company.The existing clause mentioned in the Qualifying requirements would only restrict those growing, upcoming EHV cable	Refer Corrigendum

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	as works in progress.N = Number of years prescribed for completion of the works for which tenders are invited.B = Value, at FY 2023-2024 price level, of existing commitments and on-going electrical works to be completed during the next 1.5 Years (18 months)(Period of Completion in Years to be stipulated).	manufacturers who have executed EPC contracts in India.In a healthy business environment, giving equal opportunities to all EHV manufacturers & Electrical contractors, would benefit the Govt. in getting a competitive bid from such quality manufacturers and contractors.Request this clause is amended as mentioned above.	
6.	**Section 2 ITT,** 3.6 Note: (i) The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent	- The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent Chartered Accountant with UDI number we request this clause is modified for the following reasons: - We have executed and currently executing a lot of projects in various states, in India. - Getting any statement duly signed by the Executive engineer of that Utility is practically an impossible task, since we have to practically cover most of the States in India. - Hence, it would be appropriate, to get the Chartered Accountant with their UDI number duly signed. - As mentioned above, the company's turnover for the last 5 years duly signed by the Chartered Accountant with their UDI number will be submitted. - Request amendment is issued as mentioned above.	Refer Corrigendum
7.	Techno-Commercial Sheet There is no provision made in the techno commercial Sheets to fill the GTP details	Requested to provide revised techno-commercial sheets As per ITT Clause 3.10 Note (b) "The Guaranteed Technical Particulars of the equipment's shall be filled in the concerned Data Requirement Sheet (DRS) of Techno- Commercial sheets."	Only documents/ information required as per section 3 of tender documents are to be uploaded in KPPP. Refer Corrigendum
8.	**Section 5 Conditions of Contract**	Requested for "COMMISSIONING PERIOD IS EIGHTEEN MONTHS (18) Twenty Four Months (24) FROM THE DATE OF LETTER OF INTENT TO AWARD THE CONTRACT	Tender Condition Prevails

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	"COMMISSIONING PERIOD IS EIGHTEEN MONTHS (18) FROM THE DATE OF LETTER OF INTENT TO AWARD THE CONTRACT INCLUDING MONSOON PERIOD"	INCLUDING MONSOON PERIOD" - The tender comprises of 4 routes totalling around 16 Circuit Kilometres route length. - Considering the quantum of work and the necessary approvals from various utilities / departments, the time frame of required for the commissioning should be 24months instead of 18 months Request the commissioning period is amended to 24 months from the date of letter of Intent.	
9.	Price Adjustment (clause 40.5) The Prices, only for the following items, quoted by the Bidder which are "Own manufactured" shall be VARIABLE in accordance with the relevant IEEMA/CACMAI price variation formula and indices without ceiling during the contractual period. Price Variation is not admissible for other items. The base date applicable for Price Variation is one month prior to the last date of Bid Submission date as notified (either original or extended) as per IEEMA/CACMAI Circulars: 1. Equipment/Materials: (1) Power Transformers (2) 11kV Switchgears (3) Conductors & Ground Wires (4) Lightning Arresters (5) Transformer Oil. (6) Tower Parts, equipment mounting/Station Structures. (7) Control Cables. (8) HT/EHV UG Cables (9) Conductor Hardware	To be modified as: The Prices, only for the following items, quoted by the Bidder which are "Own manufactured/Bought Out" shall be VARIABLE in accordance with the relevant IEEMA/CACMAI price variation formula and indices without ceiling during the contractual period. Price Variation is not admissible for other items. The base date applicable for Price Variation is one month prior to the last date of Bid Submission date as notified (either original or extended) as per IEEMA/CACMAI Circulars: Equipment/Materials: (1) Power Transformers (2) 11kV Switchgears (3) Conductors & Ground Wires. (4) Lightning Arresters. (5) Transformer Oil. (6) Tower Parts, equipment mounting/Station Structures. (7) Control Cables. (8) HT/EHV UG Cables (9) Conductor Hardware. (10) Battery & Battery Chargers. (11) Instrument Transformers. (12) Insulators. (13) Transmission line Towers & Accessories (14) Circuit Breakers. Reasons: The above items form a major portion of the work. KPTCL has amended price adjustment	Refer Corrigendum

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	(10) Battery & Battery Chargers (11) Instrument Transformers (12) Insulators (13) Transmission Line Towers & Accessories (14) Circuit Breakers.	clause, we are enclosed herewith the Circular vide no 819/345/85-86 Dated 27-09-2023 for your ready reference. We request you to kindly amend this clause to submit a competitive bid.	
10.	General	Item description for overhead line and survey reports are not available in the tender documents.	Check Survey and Detail Survey are in the scope of Contractor. Preliminary Survey report can be refereed at office of the Executive Engineer (Elec), BDA during office hours
11.	Qualifying Requirement:	We observed that qualification criteria provided in tenders of Karnataka Power Transmission Corporation Ltd for Electrical Projects duly approved by the Finance Department, Govt. of Karnataka as per KW4 is not considered in the above tenders floated by you. We request you to consider Qualifying criteria duly approved by the Finance Department for KPTCL.	Qualification Criteria are as per the FD approval Refer Corrigendum
12.	Stage of Payment Clause:	We request you to consider terms of payment for supply portion of the contract as mentioned below :-(1) Seventy percent (70%) of the Ex-works price plus 100% Taxes ie., CGST, SGST, IGST, UTGST, Custom Duties on Imports, cess if any, as the case may be in respect of materials (on receipt of Ist Bill after supply of Turnkey Materials) shall be paid on MAS (Material Acknowledgement Statement.)(2) Twenty Five percent (10%) of Ex-works price of materials shall be paid progressively on erection of the equipment's/materials.(3) Ten percent (10%) of Ex-works price of materials shall be paid on successful completion of Trail Operation.(4) Ten percent (10%) of the Ex-works price in respect of materials shall be paid on submission of required number of reproducible, manuals, approved drawings, test report and pamphlets and complete documents pertaining to Transmission lines/Sub-Stations.	Ref Corrigendum
13.	Mobilization Advance Payment:	We request you to consider interest free Advance payment for mobilization of works as	Refer corrigendum

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		specified in KW4.	
14.	Erection Portion Prices:	On verification in your portal there is no provision for keying/ quoting erection prices of sub-station portions, the same shall be provided.	Erection prices are clubbed in the BOQ specification. Rate to be quoted is inclusive of erection prices.
15.	BOQ Quantity:	Tender BOQ quantities provided in the tender are different as required i.e. Estimate provided by KPTCL to BDA. Please look into this and update. (Enclosed statement for your kind reference).	No Statement is enclosed by the bidder to verify. The current tender is as per the revised power sanction and revised connectivity. Hence, BOQ uploaded in the tender prevails.
16	General	We observed that unit rates considered in your estimate are not matching latest SR rates published for some of the items. These may be correct.	BOQ uploaded is as per latest SORand prevails. Bidder is free to quote his rates
17.	General	We request you to consider Unit of Mounting Structures / Station Towers as in Nos. instead of MTs. Bolt & Nuts for the same not been provided in BOQ	Tender Conditions Prevail
18	5% Performance Bank Guarantee on the cost of EHV cable and cable accessories:	You have mentioned Note: under clause No. 10 defect liability Period/ Guarantee Page no 132 of 177 of bidding document as: "The successful bidder shall have to furnish 5% performance Bank Guarantee on the cost of EHV cable and Cable accessories for a total period of 60 months instead of Extrusion". The EHV UG cable performance Guarantee already covered in the 10.3 defect liability Period/ Guarantee. We request you to kindly not to insist any additional performance guarantee for UG cable.	Refer corrigendum The Security deposit / Contract performance Guarantee, it covers 5% of the total contract price up to DLP of the project from the final certification and handing over to KPTCL Further, only 5% of cost of specified components like

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			EHV cables and cable accessories etc., will be retained for further period beyond the DLP period as per the tender
19.	Clause No. 5 of SCC The Road Restoration work is to be done through concerned Turnkey Contractor whom the UG cable works are awarded at the prevalent KPWD UNISR for Road Restoration in BBMP area and also for other than BBMP areas.	This clause is not clear, please elaborate.	Works to be executed as per the drawings. Tender Conditions Prevail
20	Section 2: Instructions to Tenderers (ITT), Clause No. 7.2 Section 11 is to be duly filled and uploaded on e-procurement portal by the Bidder		Section 11 has been deleted
21	Section 2: Instructions to Tenderers (ITT), Clause No. 3.11 (b) Technical parameters of the bought out materials/ equipment's shall be clearly furnished. Please refer Annexure - A criteria for vendor approval	Annexure-A is not available with the tender documents. Please provide the same	Clause 3.11 is modified , refer corrigendum
22.	Section 2: Instructions to Tenderers (ITT), Clause No. 10.6 The Bidder shall complete all the Schedules & Annexure in the Bid Proposal Sheets, Technical Data Sheets,	Kindly provide the Schedules & Annexure, Bid Proposal Sheets, Technical Data Sheet formats.	Tender Conditions Prevail Refer Section 3 , 4 & elsewhere

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	and Financial Bid offer and specified elsewhere. The Qualifying Data shall be filled in the required Schedule of Technical sheets. While furnishing Qualifying Data, only the list of executed Works, similar in nature to the tendered Scope of Work, shall be furnished.		
23.	Section 2: Instructions to Tenderers (ITT), Clause No. 11.6 Note The bidder shall specify in the appropriate column of the Technical schedule, as to whether the materials/ equipment's are 'own manufactured' or 'bought out items'.	Please provide the Techno- Commercial Schedule to Bidder for Specifying that whether a material is "own manufactured" OR "bought out item"	As per the circular KPTCL/B19/345/85-86 dated 27.09.2023 the materials own manufactured/ brought out item are treated similarly. Refer Corrigendum
24.	Section 4: Formats of Annexures, Annexure - II, Performa of Bank Guarantee for EMD / Bid Security We, the .....Bank at .....having our Head Office at (local address) Guarantee and undertake to pay immediately on demand by Karnataka Power Transmission Corporation Limited the	Please confirm whether Karnataka Power Transmission Corporation Limited is to be mentioned in the Bank Guarantee OR Bangalore Development Authority is to be mentioned	Refer corrigendum.
25.	Section 4: Formats of Annexures, Annexure - XI Power of Attorney	Tender specific format for Power of Attorney of the signatory has been given in this Section. Kindly note that our Company issues general Power of Attorney to the signatories instead of tender specific, hence, we would request you to kindly accept the general Power of Attorney for the signatory which is also accepted by KPTCL.	Tender Conditions prevail

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26	General	Please provide the client's bank account details for the Bank Guarantee purpose.	Bank of Baroda AC/No 73950100012018 Sankey Road Branch Bengaluru-560020 IFSC Code: BBRB0VJSANK

Executive Engineer (Electrical)
Bangalore Development Authority
Bengaluru